

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAN	IILY	ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6
	A 0 E VI 1004 0	VAD		Diesel	PROCEDURE	CLASS	DDI, TC, CAC, ECM, EGR, OC, SCR-U, PTOX	EMD
2010	ACEXH0912	XAP	14.9	Diesei	Diesel	HHDD	30R-0, FT0X	
	Y ENGINE'S IDLE INS CONTROL			ADDI	TIONAL IDLE EN	IISSIONS CO	NTROL 5	
	30g				N	/Α		
ENGINE ((L)			ENGINE MODE	LS / CODES (ra	ted power, in	hp)	
14.9				See attachmen	t for engine me	odels and re	atings	
L=liter, hp CNG/LI L/M/H I	=horsepower; kw=k NG=compressed/liqu HDD=light/medium/h	ilowatt; hi lefied natu eavy heav	r=hour, rral gas; LPG=liquef ry-duty diesel; UB=u	ied petroleum gas; E85=85% eth rban bus; HDO=heavy duty Otto;	anol fuel; MF≃mult	ifuela.k.a. BF	R 86.abc=Title 40, Code of Federal Regulations =bi fuel; DF=dual fuel; FF=flexible fuel;	
up catalyst; TBI=throttle super char	; DPF≃diesel particule body fuel injection; per; CAC=charge at	late filter, SFI/MFI= r cooler, I	PTOX=periodic trap sequential/multi port EGR / EGR-C=exhau	oxidizer, HO28/O2S=heated/ox truel injection; DGI=direct gasolin	ygen sensor; HAFS ne injection; GCAR	S/AFS=heated/ B=gaseous car	ctive catalytic reduction – urea / – ammonia; W air-fuel-ratio sensor (a.k.a., universal or linear o rburetor, IDI/DDI=indirect/direct diesel injection injection; SPL=smoke puff limiter; ECM/PCM=	xygen sensor); ; TC/SC=turbo/
(per 13 CC	R 1956.8(a)(6)(D);	Exempt=e	xempted per 13 CCF	A)(1); 30g =30 g/hr NOx (per 13 C R 1956.8(a)(6)(B) or for CNG/LNG 971): OBD≔on-board diagnostic s	fuel systems; N/A	=not applicable	al combustion auxiliary power system; ALT=alte (e.g., Otto engines and vehicles);	ternative method

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

in	NN	HC	N	Ox	NMH	C+NOx		;o		>M	н	СНО
g/bhp-hr	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	0.14	*	*	*	*	15.5	15.5	0.01	0.01	*	*
FEL	*	*	0.35	0.35	*	*	*	*	*	*	*	•
CERT	0.000	0.000	0.22	0.16	*	*	0.04	0.00	0.01	0.004	*	•
NTE	0.	21	0	.52		*	1	9.4	0	.02		*

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-26)

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: Except in vehicle applications exempted per 13 CCR 1956.8(a)(6)(B), engines in this engine family certified under 13 CCR 1956.8(a)(6)(C) [30 g/hr NOx] and section 35.B.4 of the incorporated "California Exhaust Emissions Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles" (HDDE Test Procedures) adopted Dec. 12, 2002, as last amended Sep. 1, 2006, shall be provided with an approved "Certified Clean Idle" label that shall be affixed to the vehicle into which the engine is installed.

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

BE IT FURTHER RESOLVED: The listed engine models are conditionally certified pending submission of additional test data to verify compliance with useful-life emission standards. The manufacturer has until July 30, 2010 to provide test data to confirm or correct the certification emissions levels on this conditional certification. Failure to resolve concerns by the specified time, shall be cause for the Executive Officer to rescind this conditional certification, in which case all engines covered under this conditional certification would be deemed uncertified and subject to civil penalties pursuant to Health and Safety Code Section 43154.

Engines certified under this Executive Order must conform to a	III applicable California emission regulations
The Bureau of Automotive Repair will be notified by copy of this	s Executive Order.

day of January 2010. Executed at El Monte, California on this

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Template

Date: 12/28/2009

Attalment page 1.f. EO#: A-021-0521

Engine Family	Engine Family 1.Engine Code 2.Engine Model	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	8.Fuel Rate: 9.Emission Control (bs/hr)@peak torqueDevice Per SAE J1930
ACEXH0912XAP	3376;FR10812	ISX15 450ST	407@1977	231	154	1750@1200	333	135	SCRC, PTOX,
ACEXH0912XAP	3376;FR10811	ISX15 450ST	407@1977	231	154	1650@1200	312	126	SCRC, PTOK,
ACEXH0912XAP	3376;FR10809	ISX15 450	407@1977	231	154	1650@1200	312	126	SCRC, PTOX,
ACEXH0912XAP	3376;FR10808	ISX15 450	407@1977	231	154	1550@1200	291	118	SCRC, PTOX,
ACEXH0912XAP	3376;FR10805	ISX15 425ST	384@1977	221	154	1750@1200	333	135	scRc, РТФХ,
ACEXH0912XAP	3376;FR10804	ISX15 425ST	384@1977	221	154	1650@1200	312	126	SCRC, PTÓX,
ACEXH0912XAP	3376;FR10803	ISX15 425	384@1977	221	154	1650@1200	312	126	SCRC, PTOX,
ACEXH0912XAP	3376;FR10802	ISX15 400ST	362@1977	212	141	1750@1200	333	135	SCRC, PTOX,
ACEXH0912XAP	3376;FR10801	ISX15 400ST	362@1977	212	141	1650@1200	312	126	SCRC, PTOX,
ACEXH0912XAP	3376;FR10800	ISX15 400	362@1977	212	141	1450@1200	272	110	scrc,/PTox,
ACEXH0912XAP	3376;FR10824	ISX15 435V	404@1977	229	153	1450@1200	272	110	SCR¢, PTOX,
ACEXH0912XAP	3490;FR10872	ISX15 450ST	407@1977	231	154	1750@1200	329	133	SCR¢, PTOX,
ACEXH0912XAP	3490;FR10871	ISX15 450ST	407@1977	231	154	1650@1200	309	125	SCRO, PTOX,
ACEXH0912XAP	3490;FR10870	ISX15 450	407@1977	231	154	1650@1200	309	125	SCFC PTOX,
ACEXH0912XAP	3490;FR10869	ISX15 450	407@1977	231	154	1550@1200	289	117	SCRC, PTOX,
ACEXH0912XAP	3490;FR10868	ISX15 425ST	384@1977	221	154	1750@1200	329	133	SCRC, PTOX,
ACEXH0912XAP	3490;FR10867	ISX15 425ST	384@1977	221	154	1650@1200	309	125	SCRC, PTOX,
ACEXH0912XAP	3490;FR10866	ISX15 425	384@1977	221	154	1650@1200	309	125	SGRC, PTOX,
ACEXH0912XAP	3490;FR10865	ISX15 400ST	362@1977	212	141	1750@1200	329	133	s¢RC, нтох,
ACEXH0912XAP	3490;FR10864	ISX15 400ST	362@1977	212	141	1650@1200	309	125	scrc, нтох,
ACEXH0912XAP	3490;FR10863	ISX15 400	362@1977	212	141	1450@1200	272	110	SCRC, PROX,
ACEXH0912XAP	3490;FR10873	ISX15 435V	404@1977	229	153	1450@1200	272	1110	яскс, ртрх,
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